DIRECTIVE NO. GPR 8710.8B **APPROVED BY Signature:** Original Signed By

EFFECTIVE DATE: September 12, 2019 **NAME:** Eric K. Isaac

EXPIRATION DATE: June 5, 2022 TITLE: Director, Safety and Mission Assurance

COMPLIANCE IS MANDATORY

Responsible Office: 300/Safety & Mission Assurance Directorate

Title: GSFC Safety Program Management

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PREFACE

P.1 PURPOSE

The Goddard Space Flight Center (GSFC) Safety Program was established to provide a safe work environment for GSFC personnel and to safeguard GSFC property and the public. Program implementation is consistent with the GSFC Safety Policy as stated in GPD 8715.1, Goddard Space Flight Center Safety Policy. The purpose of this document is to describe the implementation of the Safety Program at the GSFC, and to describe the responsibilities of the functional safety organizations that provide that implementation at each of Goddard's five main sites: the Greenbelt facility in Maryland, the Wallops Flight Facility (WFF) in Virginia, the NASA Independent Verification & Validation (IV&V) Facility in West Virginia, the Goddard Institute for Space Studies (GISS) in New York, and the White Sands Complex (WSC) in New Mexico. In addition to these five main sites, GSFC operates numerous smaller, remote sites around the world. Each of these sites operates in compliance with the GSFC safety policy and receives service/support from the GSFC functional safety organizations on an as requested and/or as needed basis.

This document focuses on the responsibilities of the GSFC functional safety organizations, i.e., those organizations whose primary responsibilities include implementing the Center's Safety Program. This document does not address the normal safety responsibilities of supervisors/line management which are identified in GPD 8715.1, Goddard Space Flight Center Safety Policy, and GPR 1700.1, Occupational Safety Program at Goddard Space Flight Center. Supervisors/line management remain responsible for the safety of their employees and the safe conduct of all activities in their organization at all GSFC sites.

P.2 APPLICABILITY

- a. This directive applies to all GSFC organizations at all GSFC sites. It applies to all GSFC civil servants, contractors, students, visiting scientists, and others doing business at GSFC. It is expected that safety will be implemented at all GSFC sites in a manner compliant with GSFC policy. For those remote sites that are contractor-managed it is expected that safety will be implemented in accordance with the GSFC approved safety plan as required in their contracts.
- b. In this directive, all document citations are assumed to be the latest version unless otherwise noted.
- c. In this directive, all mandatory actions (i.e., requirements) are denoted by statements containing the term "shall." The terms "may" or "can" denote discretionary privilege or permission; "should" denotes a good practice and is recommended but not required; "will" denotes expected outcome; and "are/is" denotes descriptive material.

P.3 AUTHORITY

NPD 8700.1, NASA Policy for Safety and Mission Success

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P.4 APPLICABLE DOCUMENTS AND FORMS

- a. NPR 1800.1 NASA Occupational Health Program Procedures
- b. NPR 8621.1 NASA Procedural Requirements for Mishap and Close Call Reporting, Investigating, and Recordkeeping
- c. NPR 8715.1 NASA Occupational Safety and Health Programs
- d. NPR 8715.2 NASA Emergency Preparedness Procedural Requirements
- e. NPR 8715.3 NASA General Safety Program Requirements
- f. NPR 8715.5 Range Safety Program
- g. NPR 8715.7 Expendable Launch Vehicle Payload Safety Program
- h. GPD 8715.1 Goddard Space Flight Center Safety Policy
- i. GPR 1060.3 The Goddard Governance System
- j. GPR 1700.1 Occupational Safety Program at Goddard Space Flight Center
- k. GPR 1700.2 Chemical Hygiene Program
- 1. GPR 1700.5 Control of Hazardous Energy (Lockout/Tagout)
- m. GPR 1700.6 Confined Space Program Requirements
- n. GPR 1700.7 Electrical Safety
- o. GPR 1700.8 GSFC Hazard Communication Program
- p. GPR 1820.1 Hearing Conservation Program
- q. GPR 1820.2 Respiratory Protection
- r. GPR 1840.2 Industrial Hygiene Program
- s. GPR 1860.1 Ionizing Radiation Protection
- t. GPR 1860.2 Laser Radiation Protection
- u. GPR 1860.3 Radio Frequency Radiation Protection
- v. GPR 1860.4 Ultraviolet and High Intensity Light Radiation Protection
- w. GPR 5340.3 Preparation and Handling of GIDEP Alerts, GIDEP Safety Alerts, GIDEP Problem Advisories, GIDEP Agency Action Notices, and NASA Advisories
- x. GPR 6400.1 Logistics Support
- y. GPR 7320.1 Facilities System Safety
- z. GPR 7900.0 Aviation Safety Program
- aa. GPR 8621.4 GSFC Mishap Preparedness and Contingency Plan
- bb. GPR 8710.2 GSFC Emergency Management Program Plan (EMP)
- cc. GPR 8710.3 Certification and Recertification of Ground-Based Pressure Vessels and Pressurized Systems
- dd. GPR 8710.7 Cryogenic Safety
- ee. GPR 8715.1 Processing of NASA Safety Reporting System (NSRS) Incident Reports
- ff. GPR 8715.5 Fire Protection at GSFC Greenbelt
- gg. GPR 8715.9 Contractor Safety Program
- hh. GPR 8715.10 GSFC Explosive Safety Program
- ii. GPR 8719.1 Lifting Devices and Equipment (LDE) Certifications and Operations

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P.5 CANCELLATION

GPR 8710.8A, GSFC Safety Program Management

P.6 SAFETY

Details are in the individual safety implementation sections.

P.7 TRAINING

None

P.8 RECORDS

Record Title	Record Custodian	Retention			
Completed GSFC Safety Committee (GSC) Action Lists	GSC Executive Secretary	*NRRS 1/14-B1(a) PERMANENT. Retire to Federal Records Center when 2 years old. Transfer to National Archives and Records Administration (NARA) when 20 years old.			
GSC Presentations to Safety Council	GSC Executive Secretary	*NRRS 1/14-B1(a)			
Annual Safety Program Status Presentation	GSC Executive Secretary	*NRRS 1/14-B1(a)			
Charters of Center Standing Safety Committees	Committee Chair	*NRRS 1/14-B1(a)			
Meeting minutes or activity logs of Center Standing Safety Committees and Directorate Safety Committees	Committee Chair	*NRRS 1/14-B1(a)			

^{*}NRRS 1441.1 – NASA Records Retention Schedules

P.9 MEASUREMENT/VERIFICATION

The Chair of the GSFC Safety Committee shall present a Safety Program Status Briefing to the Center Director and to the Goddard Safety Council on a periodic basis, which identifies safety trends and issues.

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PROCEDURES

The GSFC Safety Program was established to implement the GSFC Safety Policy as stated in GPD 8715.1, Goddard Space Flight Center Safety Policy. This purpose of this document is to describe the implementation of the GSFC Safety Program and the execution of the Program at the five main GSFC sites: Greenbelt, WFF, IV&V, GISS, and WSC. It focuses on the responsibilities of the GSFC functional safety organizations. It does not address the normal safety responsibilities of supervisors/line management (see Section 1.9, Line Management).

Section 1 provides a narrative description of the roles and responsibilities of the key individuals, organizations, and groups which comprise the management elements of the GSFC Safety Program.

Section 2 provides an overview of how functional safety areas are implemented at GSFC.

1. GSFC SAFETY PROGRAM ROLES AND RESPONSIBILITIES

This Section provides a narrative description of the roles and responsibilities of the key individuals, organizations, and groups which comprise the management elements of the GSFC Safety Program.

1.1 Center Director

The Center Director has overall responsibility for safety at GSFC. The Center Director serves as the chair of the GSFC Safety Council.

1.2 Deputy Center Director

The Deputy Center Director chairs the GSFC Contractor Safety Forum (GCSF).

1.3 GSFC Safety Council

The GSFC Safety Council will perform its duties as defined in GPR 1060.3 and in accordance with its established charter.

1.4 Director of the Wallops Flight Facility

The Director of WFF shall be responsible for implementation of safety requirements at WFF in compliance with GPD 8715.1, Goddard Space Flight Center Safety Policy

The WFF Director, - reports directly to the GSFC Center Director. Consistent with the other large U.S. ranges such as the Eastern and Western Ranges, the WFF Director is the equivalent of the Range Commander and is responsible for overall safety at WFF. As such, the WFF Director has direct supervisory authority over the safety organization, with the Safety Office Chief as a direct report. The WFF Director directs the resolution of safety issues, thereby facilitating successful, safe execution of programs and projects, including aviation and range safety. Responsibilities include ensuring the overall safety of the WFF and public (people and property), and safety for launch (Certificate of Flight

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Readiness (CoFR) and Authority to Proceed) taking into account vehicle readiness, range readiness and safety readiness.

1.5 Functional Safety Organizations

Codes 200, 300, 500, 400, 600 and 800 have functional safety responsibility at GSFC, in compliance with the GSFC Safety Policy. Their respective roles and responsibilities at each site are identified in subsequent sections of this GPR. **NOTE:** Codes 180, 452 and 611 are responsible for ensuring appropriate safety program implementation and compliance with the GSFC Safety Policy at IV&V, WSC and GISS, respectively.

- a. Code 240, Protective Services Division, has responsibility for providing policy and overall oversight, advice, and assistance to Center personnel, organizations, and contractors regarding motor vehicle safety and emergency preparedness, response, recovery, and mitigation.
- b. Code 250, Medical and Environmental Management Division, has responsibility for planning, organizing, and managing medical health activities including but not limited to Health Unit services, the Employee Assistance Program (EAP), the Bloodborne Pathogen program, and the Automated External Defibrillator (AED) program.
- c. Code 270, Information and Logistics Management Division, has responsibility for ensuring products are packaged, marked and preserved to ensure conformance to product and customer requirements, including environmental control during shipping, handling, and storage, and compliance with applicable hazardous materials requirements.
- d. Code 360, Safety Division, has responsibility for:
 - (1) Policy and oversight for flight project safety at Greenbelt,
 - (2) Policy for Occupational Safety and Health (OSH) for GSFC, and oversight of implementation of OSH Programs at Greenbelt and support to other GSFC sites as requested.
 - (3) Policy for lifting devices and equipment (LDE) and pressure vessels/systems (PV/S) and oversight of implementation at Greenbelt.
 - (4) Providing Center Radiation Safety Officer and the Greenbelt Authority Having Jurisdiction (AHJ) oversight for Greenbelt
- e. Code 803, Safety Office (WFF), has responsibility for:
 - (1) Center explosives safety policy and implementation, Center range safety policy and implementation, WFF project safety, LDE & PVS, and oversight of GSFC occupational safety requirements at WFF
 - (2) Providing Center Explosives Safety Officer (ESO) and WFF AHJ oversight.
- f. Code 830, Aircraft Office (WFF), is responsible for the Aviation Safety Program at GSFC, including manned and unmanned aviation safety.

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1.6 GSFC Safety Committee

The GSC is a committee of civil servants that includes representatives from each Directorate who have been designated in writing by their respective Directors of. The chair of the GSC is the Director of the Safety & Mission Assurance (SMA) Directorate. One civil servant from each directorate shall be the Directorate representative to the GSC. Each civil servant labor union is invited to provide a representative at their discretion and may participate in whatever manner they deem appropriate.

The GSC facilitates the integration of activities undertaken by the Center's safety organizations and provides a Center-wide forum where issues arising from these activities can be discussed and resolved. The GSC serves as an advocate for safety initiatives to senior Center management. It reviews and approves Center Standing Safety Committee charters. Additional information (i.e., charter, schedule, minutes, etc.) is available on the GSC Wiki Page:

https://spaces.gsfc.nasa.gov/display/GSC/Goddard+Safety+Committee+Wiki+Page+Home

The Wallops Executive Safety and Health Committee shall serve as the WFF Safety Committee and the Code 800 Directorate Safety Committee for all WFF safety activities and is chaired by the WFF Director. Organizations at WFF will support their Directorate level safety committees in addition to the Wallops Executive Safety and Health Committee and lower level safety committees.

1.7 Center Standing and Ad Hoc Safety Committees

GSFC Standing Safety Committees, (e.g. Lifting Devices and Equipment, Cryogenics, Ionizing and Non-ionizing Radiation, Electrical Safety), are established to address critical safety activities that have long-term applicability and impact. These committees address the safety implications of activities that occur on a regular, repetitive basis. Each Center safety committee shall:

- a. Be comprised of individuals with responsibility for policy generation and/or implementation of procedures related to the area of safety covered by the committee;
- b. Develop a charter for review and approval by the GSC:
- c. Develop and promulgate procedures and processes related to safety in their areas of concern as required;
- d. Develop/review the implementation of such procedures and processes at the Center and report the results to the GSC as required;
- e. Maintain meeting minutes or a log of activities as a record;
- f. Assist organizations in implementing relevant policies and procedures; and
- g. Facilitate and coordinate communication between Center organizations and the GSC. GSFC Center Ad Hoc Safety Committees address safety activities that have shorter-term applicability, such as those that address the resolution of a specific safety issue or concern.

1.8 <u>Directorate Safety Committee</u>

Each Directorate shall establish a Directorate Safety Committee. The committee may include contractors and civil servants. Directorate level safety committee charters are approved by the Director of. The Directorate Safety Committees shall:

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a. Meet at least quarterly to promote safety awareness among Directorate employees;

- b. Develop and implement procedures and processes that foster safe work conditions in Directorateoperated and -controlled facilities;
- c. Maintain meeting minutes or a log of activities as a record;
- d. Report as required to their Director of and the GSC regarding their activities;
- e. Facilitate and coordinate the communication of best practices among the Directorate organizations and when appropriate across the Center; and
- f. Invite each civil servant labor union that represents employees in the Directorate to provide a representative at their discretion, to participate in whatever manner they deem appropriate.

1.9 <u>Line Management</u>

The normal safety responsibilities of supervisors/line management are defined in GPD 8715.1, Goddard Space Flight Center Safety Policy and GPR 1700.1, Occupational Safety Program at Goddard Space Flight Center. Supervisors/line management remain responsible for the safety of their employees and the safe conduct of all activities in their organization.

1.10 Safety Reporting

Safety issues and concerns should be reported through normal channels, starting with first line supervisors. However, employees have numerous independent routes to use if they believe a safety concern is not being addressed. They may go to their Directorate management, the GSFC SMA Director, or the Center Director. They may also go to the Chief, SMA at NASA Headquarters (HQ) or report an issue through the NASA Safety Reporting Systems (NSRS).

2. IMPLEMENTATION OF SAFETY AT THE GODDARD SPACE FLIGHT CENTER

This section describes the implementation of safety at the GSFC. The GSFC encompasses facilities at multiple sites around the country and the world. Each of the remote sites, while operating independently, must comply with the overall GSFC safety policy.

Table 1 identifies the major functional safety areas covered by the GSFC safety policy, along with the NASA Procedural Requirements (NPR) source for the safety area and the GSFC GPR. It also identifies the organization responsible for implementing the specific safety area at Greenbelt, WFF, IV&V, GISS, and WSC. Sites not listed in the table should refer questions about safety implementation to the appropriate functional safety organization.

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TABLE 1: FUNCTIONAL SAFETY AREAS, SOURCE, AND ORGANIZATIONAL IMPLEMENTATION

	Functional Safety Area	NPR Source	GPR	Greenbelt	WFF	IV&V	GISS	WSC
1	Audits & Inspections	Various	1700.1	Code 360	Code 803	Code 360	Code 360	Code 360
2	Aviation Safety	NPR 8715.3, Ch 4	7900.0	Code 830	Code 830	Code 830	Code 830	Code 830
3	Chemical Safety	NPR 8715.1	1700.2 1700.8	Code 360	Code 803	N/A	N/A	Code 452
4	Commercial Launch and Entry Operations	NPR 8715.3, Ch 3		Code 803	Code 803	N/A	N/A	N/A
5	Confined Spaces	NPR 8715.3, Ch 3	1700.6	Code 360	Code 803	Code 180	N/A	Code 452/ White Sands Complex (WSC)
6	Construction Safety	NPR 8715.3, Ch 8		Code 360	Code 803	Code 180	N/A	Code 452
7	Contractor Safety	NPR 8715.3, Ch 8	8715.9	Code 360	Code 803	Code 180	Code 611	N/A
8	Cryogenic Safety	NPR 8715.1	8710.7	Code 360	Code 803	N/A	N/A	N/A
9	Institutional / Project Design Reviews	NPR 8715.3		Code 360	Code 803	Codes 180/ 360	N/A	Codes 452/360
10	Education & Awareness	NPR 8715.3,	1700.1	Code 360	Code 803	Code 180	Code 360	Code 452
11	Electrical Safety	NPR 8715.3, Ch 3	1700.7	Code 360	Code 803	Code 360	Code 360	Code 452
12	Emergency Preparedness and Response	NPR 8715.2	8710.2	Code 240	Code 240	Code 240	Code 240	Code 452/ WSTF
13	Explosives Safety	NPR 8715.3, Ch 3	8715.10	Code 803	Code 803	Code 803	Code 803	Code 803
14	Facility Systems Safety	NPR 8715.1	7320.1	Code 360	Code 803	Code 360	Code 360	Code 360
15	Fire Safety	NPR 8715.3, Ch 5	8715.5	Code 360	Code 803	Code 360	Code 360	Code 452/ WSTF
16	Flight Project Safety	NPR 8715.3, Ch 3 NPR 8715.7		Code 360	Code 803	N/A	N/A	N/A
17	Government-Industry Data Exchange Program (GIDEP) Safe Alerts	NPR 8715.1	5340.3	Code 370	Code 803	Code 370	Code 370	Code 370
18	Hazardous Material Transportation, Storage and Use	NPR 8715.3, Ch 3	6400.1	Code 270	Code 270	N/A	N/A	Code 452

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	Functional Safety	NPR	GPR	Greenbelt	WFF	IV&V	GISS	WSC
	Area	Source	GPK	Greenbeit	WIT	1000	G155	WSC
19	Hazardous Operations	NPR 8715.3, Ch 3		Code 360	Code 803	Code 180	N/A	Code 452
20	Industrial Hygiene	NPR 8715.1	1840.2	Code 360	Code 803	Code 360	Code 360	Codes 452/WSC
21	Laboratory Hazards	NPR 8715.3, Ch 3		Code 360	Code 803	N/A	N/A	N/A
22	Lifting Devices and Equipment	NPR 8715.3, Ch 3	8719.1	Code 360	Code 803	Codes 180	N/A	Code 452
23	Lockout/Tagout (LO/TO) Program	NPR 8715.3, Ch 3	1700.5	Code 360	Code 803	Code 180	NA	Code 452
24	Mishap/Close Call Investigation	NPR 8621.1	8621.4	Code 360	Code 803	Code 180	Code 611	Codes 452
25	Motor Vehicle Safety	NPR 8715.3, Ch 3		Code 240	Code 240	Local authorities	N/A	Code 452
26	NASA Safety Reporting System	NPR 8715.3	8715.1	Code 360	Code 803	Code 360	Code 360	Code 360
27	Occupational Medicine	NPR 8715.1		Code 250	Code 250	Code 250	Code 250	Code 452
28	Occupational Safety	NPR 8715.1	1700.1	Code 360	Code 803	Code 180	Code 611	Code 452
29	Orbital Debris Safety	NPR 8715.3, Ch 3		Code 592	Code 592	N/A	N/A	N/A
30	Personal Protective Equipment (PPE)	NPR 8715.3, Ch 3	1700.1, 1820.1, 1820.2, 1840.2	Code 360	Code 803	Code 180	N/A	Code 452
31	Pressure Vessels & Pressurized Systems (Ground-Based)	NPR 8715.3, Ch 3	8710.3	Code 360	Code 803	Codes 180/ 360	N/A	Code 452
32	Procurement Reviews	NPR 8715.3, Ch 8	8715.9	Code 360	Code 803	Codes 180/ 360	N/A	Codes 452/ 360
33	Radiation Safety (Ionizing and Non- Ionizing)	NPR 8715.3, Ch 3	1860.1, 1860.2, 1860.3, 1860.4	Code 360	Codes 360/803	Code 180	N/A	Codes 360/ 452
34	Range Safety	NPR 8715.3, Ch 3		N/A	Code 803	N/A	N/A	N/A
35	System Safety	NPR 8715.3, Ch 3 & NPR 8715.7		Code 360	Code 803	N/A	N/A	N/A

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Appendix A – Definitions

- **A.1** Center Standing Safety Committee A committee established to develop, implement, and oversee aspects of the Center's Safety Program that require continual attention. Examples include the Chemical Safety Committee and Radiation Safety Committee.
- **A.2 Directorate Safety Committee** A committee composed of representatives from the various organizations and employee groups within a Directorate. The committee's purpose is to foster employee safety awareness and safe conditions in a Directorate's work areas.
- **A.3** Facility Owner /Operator A technical facility owner/operator is the branch or similar organization which has been designated as the primary entity responsible for the facility and the operations undertaken within it. Such designation can be determined through Center facilities designation or through other agreements and delegations as may exist.
- **A.4** Functional Safety Organization An organization whose primary responsibilities include implementing aspects of the Center's Safety Program. See Section 1.5.
- **A.5 GSFC Contractor Safety Forum** (**GCSF**) A standing committee comprised of key government management officials and representatives from contractor organizations that support Goddard's missions.
- **A.6 GSFC Safety Committee (GSC)** A committee chaired by the Director of Safety & Mission Assurance to facilitate the development and update of Center-wide safety policies and guidelines and monitor the communication of these policies and guidelines to all employees.
- **A.7 GSFC Safety Council** An organization with responsibility for monitoring the overall implementation of the GSFC Safety Program across all Center organizations/locations from a broad, Center-wide perspective. It is comprised of Directors of or their designees.
- A.8 Occupational Health Health as similarly defined in NPR 1800.1, NASA Occupational Health Program Procedures, includes those program elements necessary to provide a healthful work environment for employees, with a consideration to hazards whose results/impacts are produced over a period of time. These results/impacts may result from infection, repeated stress or strain, or repeated exposure to toxins, poisons, fumes, ionizing/non-ionizing radiation or other hazardous conditions of the work environment. At GSFC this includes industrial hygiene (health surveys, personal protective equipment, hearing conservation, air quality evaluations, ergonomics, etc.), food sanitation, radiation safety, and laser safety.
- **A.9** Occupational Safety Safety as described in NPR 8715.1, NASA Occupational Safety and Health Programs. Includes those safety program elements necessary to provide a safe and healthful work environment for employees. While the terms institutional safety and industrial safety are commonly used interchangeably with occupational safety at GSFC, occupational safety is the term used to identify these programs implemented through this and other GSFC safety and health documents.
- **A.10 Technical Facilities** An area where laboratory-based scientific research or hardware/software development activities occur. Examples include the Detector Development Laboratory, Acoustics Laboratory, clean rooms, high bay areas, etc.

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Appendix B - Acronyms

AED Automated External Defibrillator
AHJ Authority Having Jurisdiction
CoFR Certificate of Flight Readiness
EAP Employee Assistance Program
ESO Explosives Safety Officer
GCSF GSFC Contractor Safety Forum

GIDEP Government-Industry Data Exchange Program

GISS Goddard Institute for Space Studies

GPD Goddard Policy Directive

GPR Goddard Procedural Requirements

GSC GSFC Safety Committee GSFC Goddard Space Flight Center

HQ Headquarters

IV&V Independent Verification & Validation

LDE Lifting Devices and Equipment

LO/TO Lockout/Tag-out

NARA National Archives and Records Administration

NPD NASA Policy Directive

NPR NASA Procedural Requirements
NRRS NASA Records Retention Schedules
NSRS NASA Safety Reporting System
OSH Occupational Safety and Health
PPE Personal Protective Equipment

PV/S Pressure Vessels and Pressurized Systems

SMA Safety & Mission Assurance
WFF Wallops Flight Facility
WSTF White Sands Test Facility
WSC White Sands Complex

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CHANGE HISTORY LOG

Revision	Effective Date	Description of Changes
Baseline	08/24/10	Initial Release
	08/25/2015	Administratively changed and extended for 1 year. Updated responsible office throughout document from Code 350, Occupational Safety and Health (OS&H) to Code 360/Safety Division
	06/14/2016	Administratively extended for 1 year.
A	06/05/2017	Major rewrite, eliminating implementation requirements called out in safety program specific GPRs. Replaces Safety Board of Directors with Safety Council.
В	09/12/2019	Administrative Revision to correct Table 1 lines 5 and 20 should be WSC not WSTF.